

FIG. 1

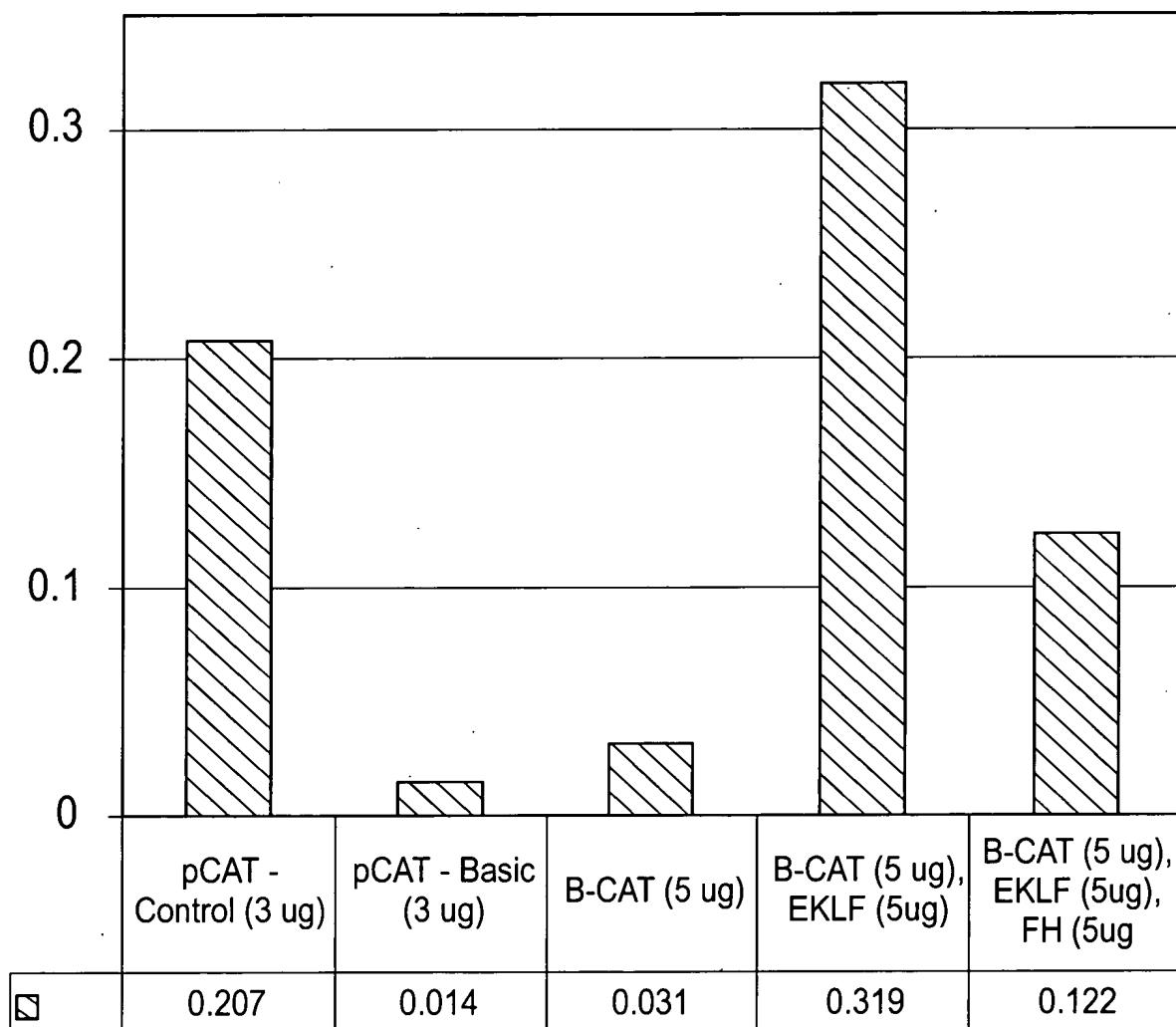


FIG. 2A

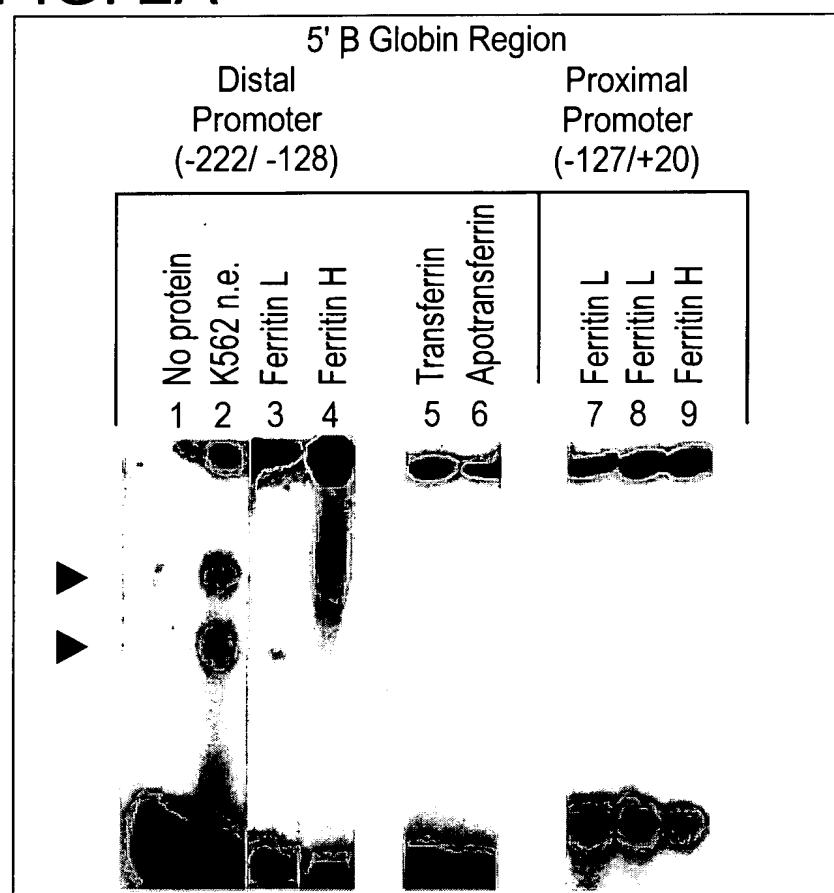


FIG. 2B

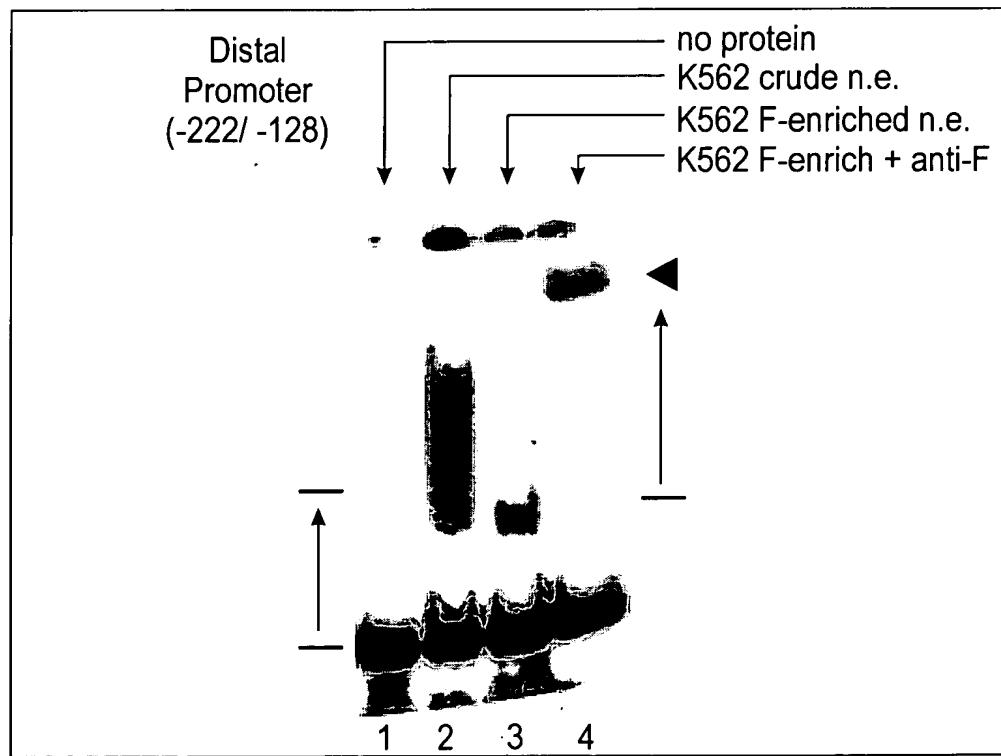


FIG. 2C

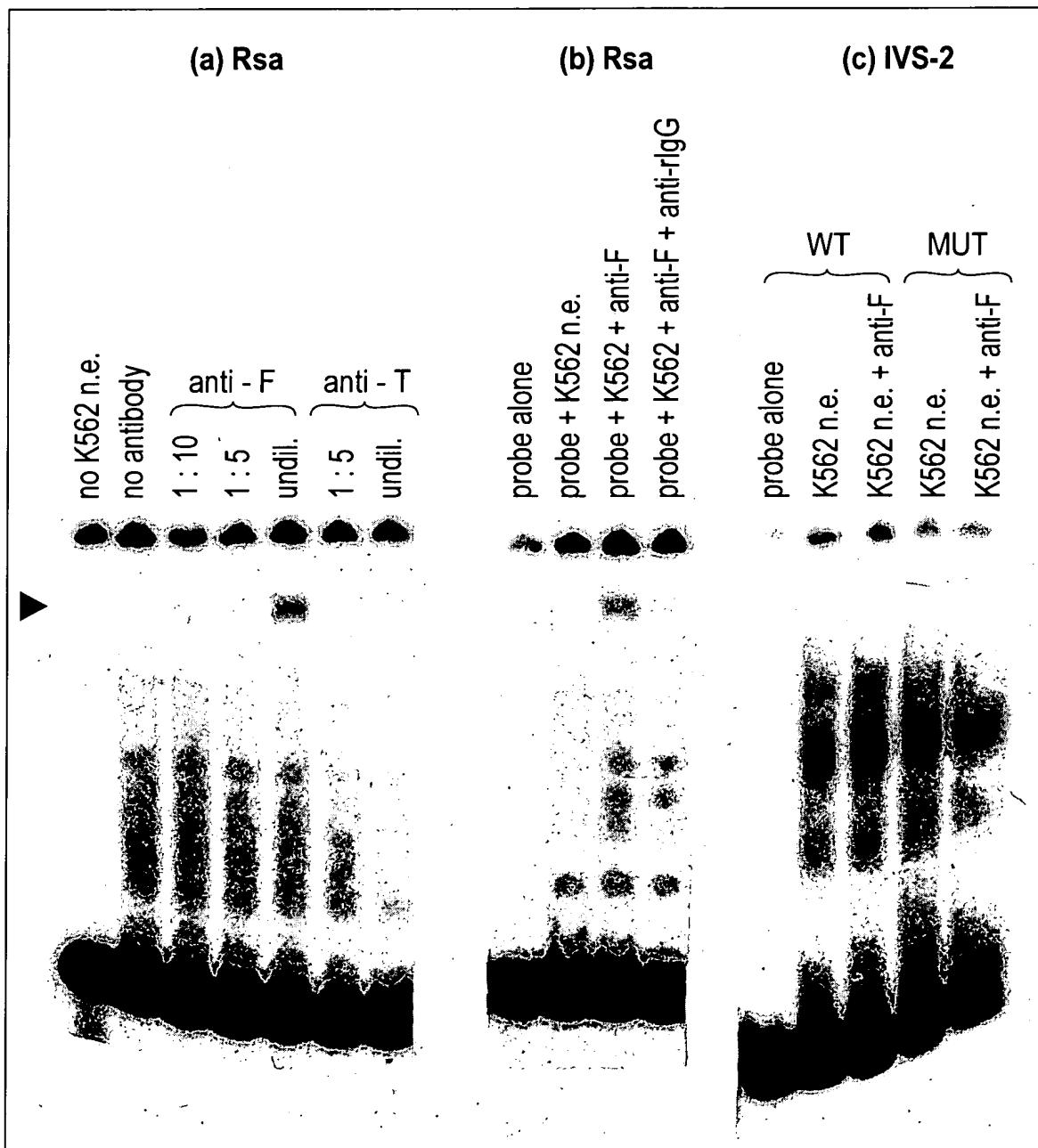


FIG. 3A

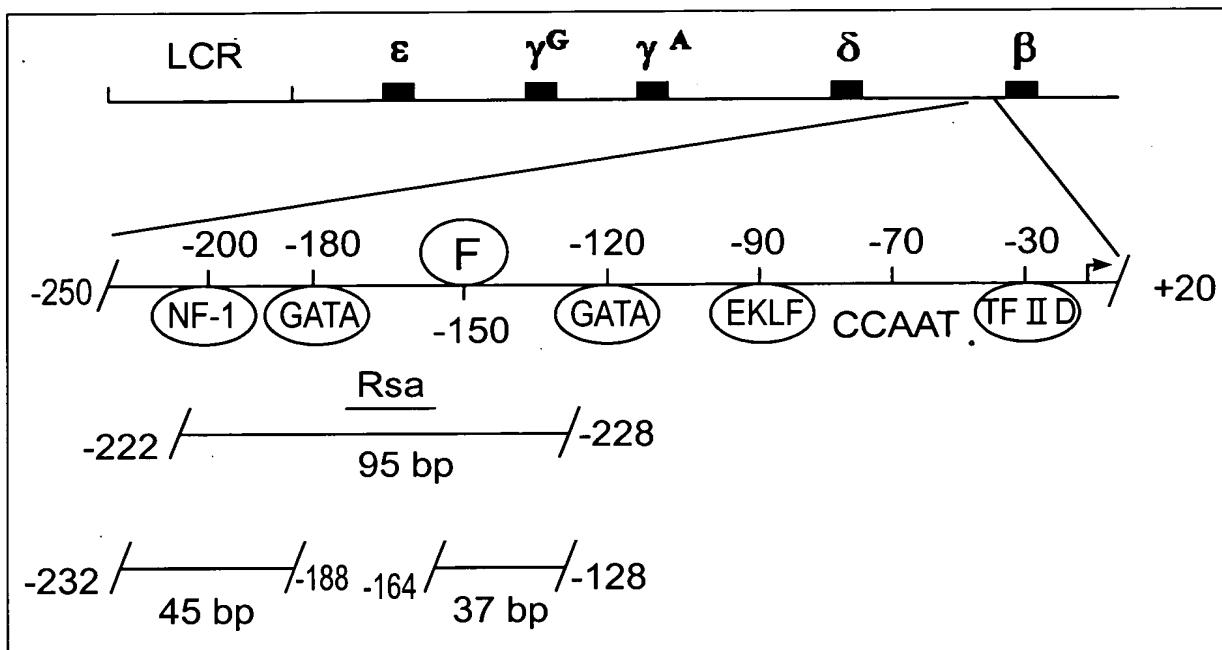


FIG. 3B

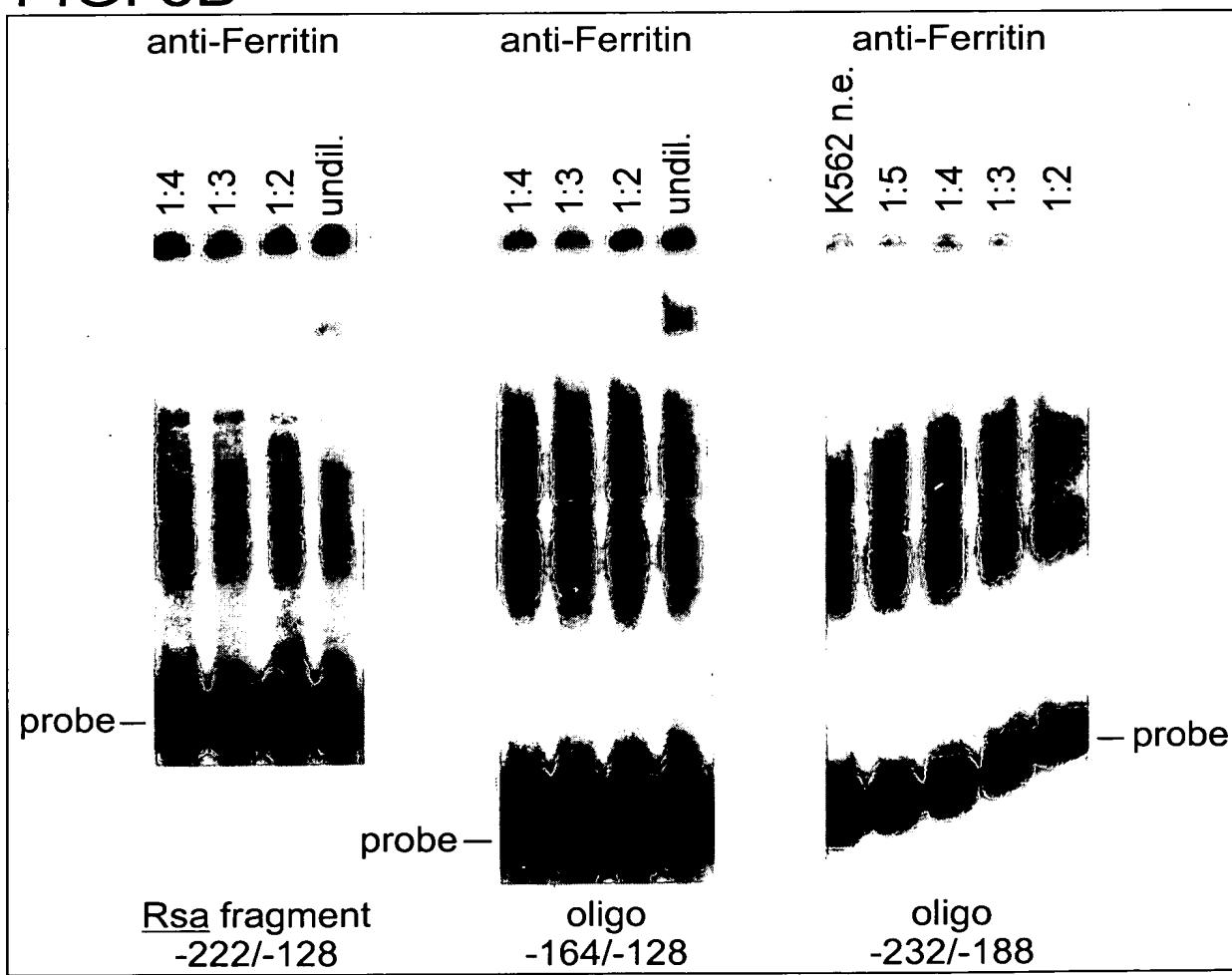


FIG. 4A

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WT and Mutant Oligonucleotides of -164/-128, 5'  $\beta$ -Globin

WT sequence: 5' AACTCCTAAGC CAGTGCCAGAAGAGCCAAGGACAGGT 3'

Mutant #1 (-162/-157): 5' AAGGGGGGAGCCAGTGCCAGAAGAGCCAAGGACAGGT 3'

Mutant #2 (-144/-139): 5' AACTCCTAAGCCAGTGCCAG AAAAAACAAGGACAGGT 3'

Mutant #3 (-135/-130): 5' AACTCCTAAGCCAGTGCCAGAAGAGCCA CCCCCCGT 3'

Mutant #4 (-153/-148): 5' AACTCCTAAGC AAAAAACAGAAGAGCCAAGGACAGGT 3'

FIG. 4B

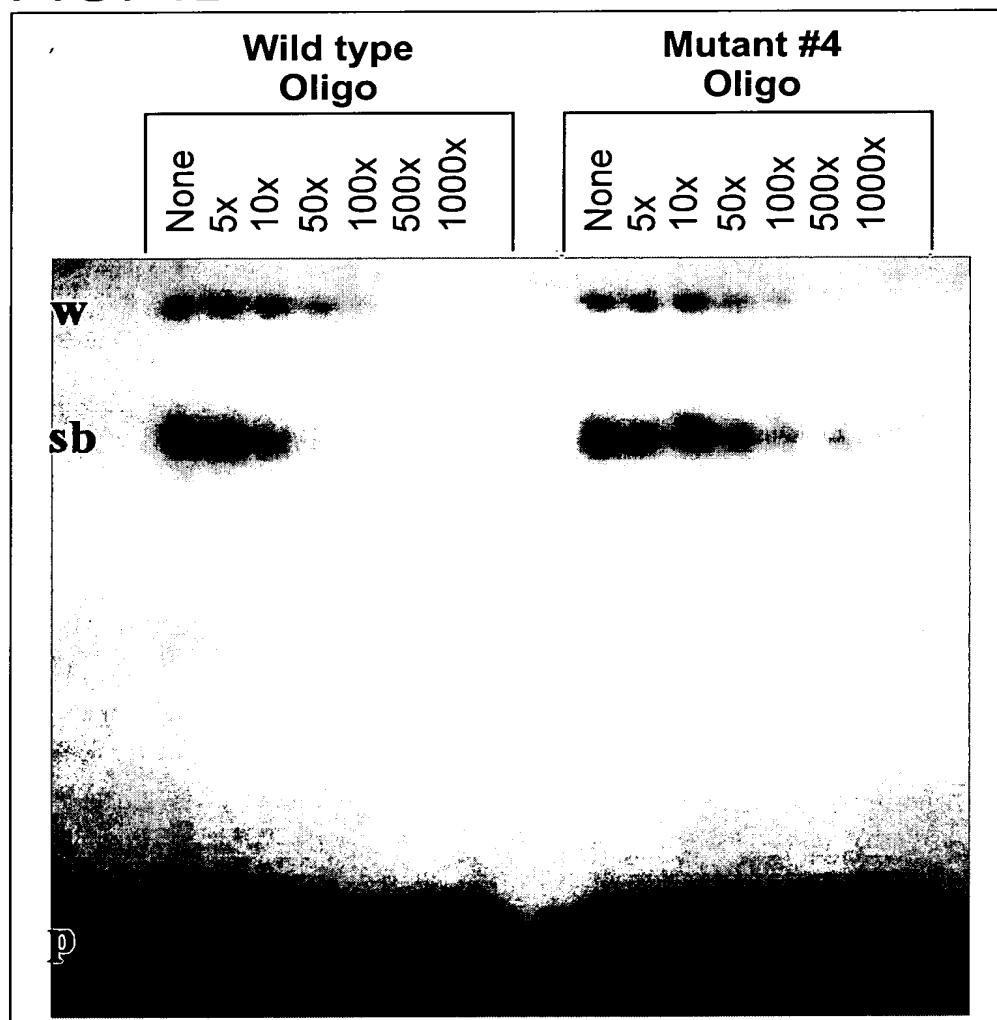


FIG. 4C

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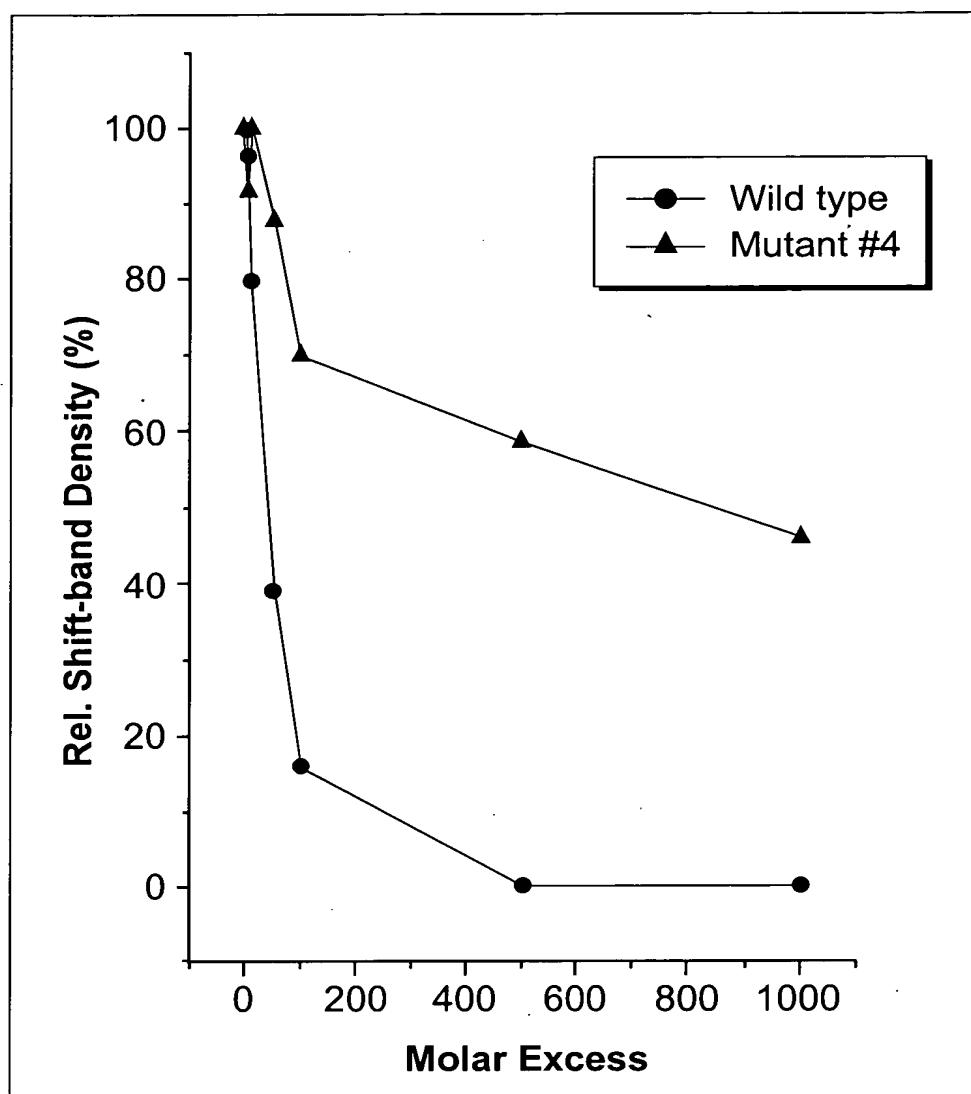


FIG. 4D

Competitor Oligonucleotide	Molar Excess producing 50 % Inhibition
Wild type (WT)	42x
Mutant #1	30x
Mutant #2	38x
Mutant #3	35x
Mutant #4	850x

FIG. 5

	-162	-153	-148	-142
Human	TCCTAAGC	<b>CAGTGC</b>	CAGAAG	
Gorilla	TCCTAAGC	<b>CAGTGC</b>	CAGGAG	
Macaca	TCCTAAGC	<b>CAGTGC</b>	CAGAAG	
Bovine	TCTAAAGT	<b>CAGTGC</b>	CAGGAA	
Goat	TCTAAAGT	<b>CAGTGC</b>	CAGGAA	
Sheep	TCTAAAGT	<b>CAGTGC</b>	CAGGAA	
Galago	TCCTAAGT	<b>GAGTGC</b>	CAGAAC	
Tarsus	CTCTAAGC	<b>CAGTAC</b>	CAGAAC	
Lepus	TCCTAAGC	<b>CATTGC</b>	CAGAAC	
Rabbit	TCCTAAGC	<b>CATTGC</b>	CATAAC	
Rat	CCTGAGGC	<b>CAGTGG</b>	CCCAGC	
Mouse	TCTTAAGC	<b>CTGTGC</b>	CATAGC	

FIG. 6

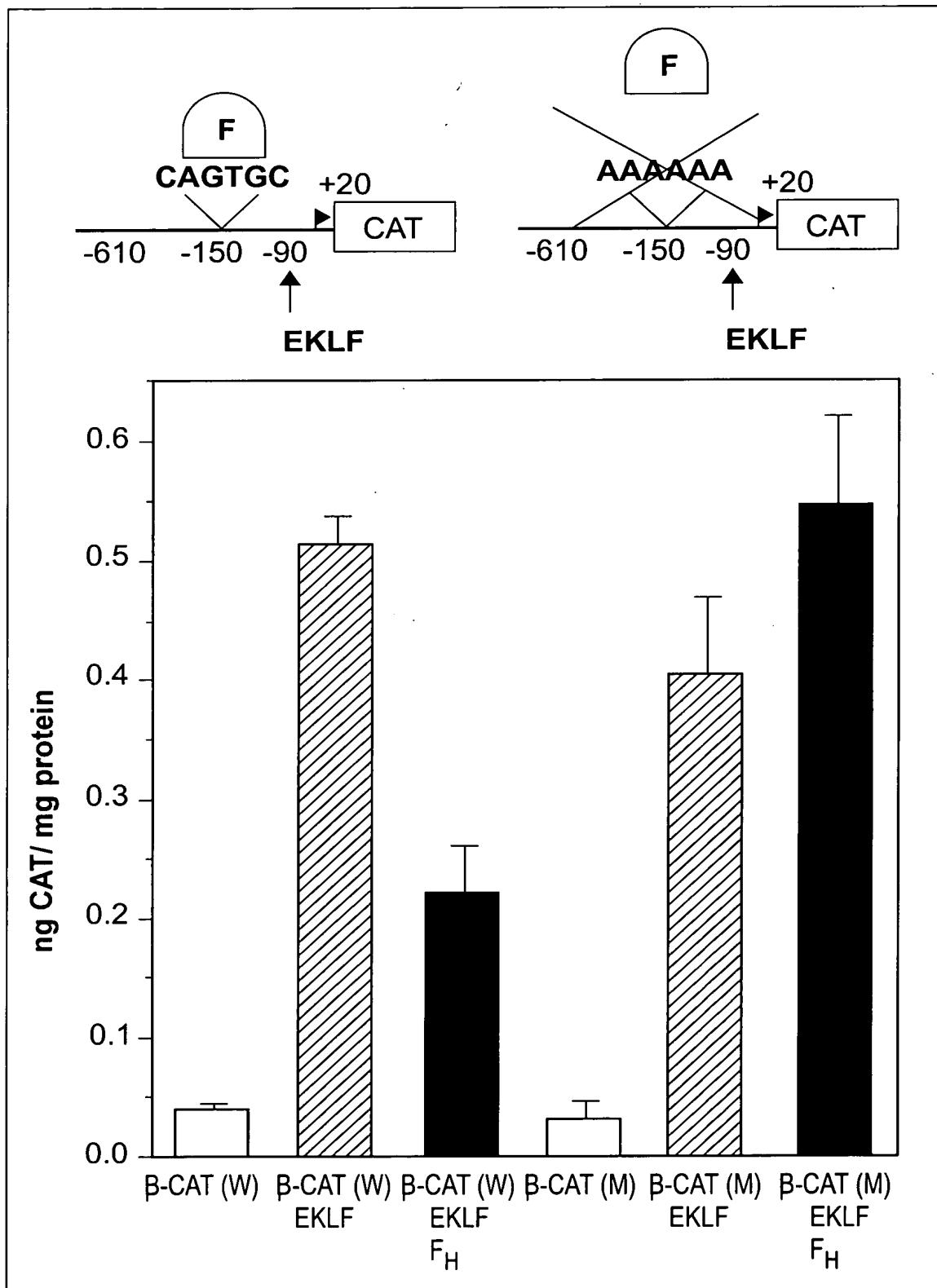


FIG. 7

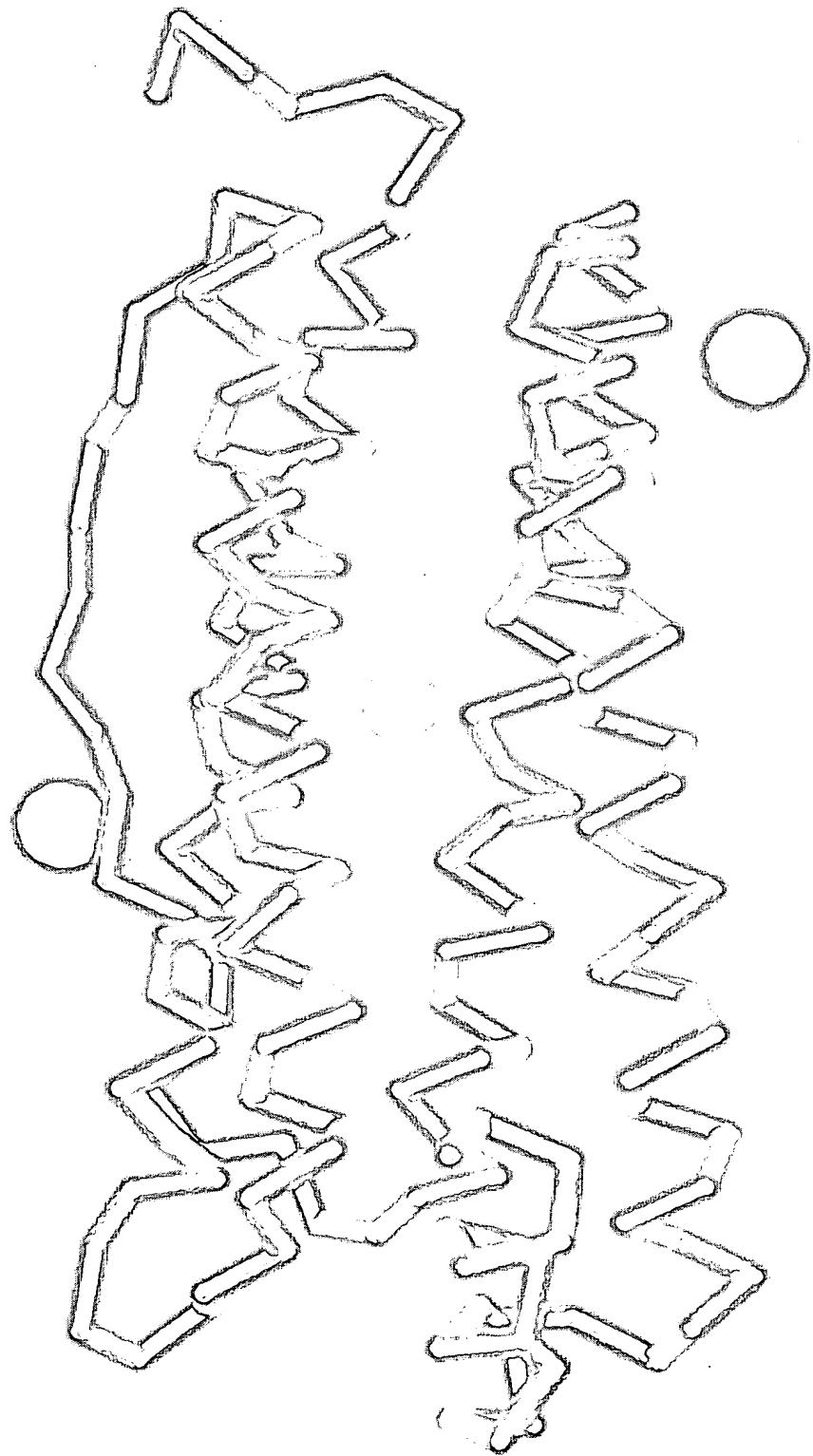


FIG. 8

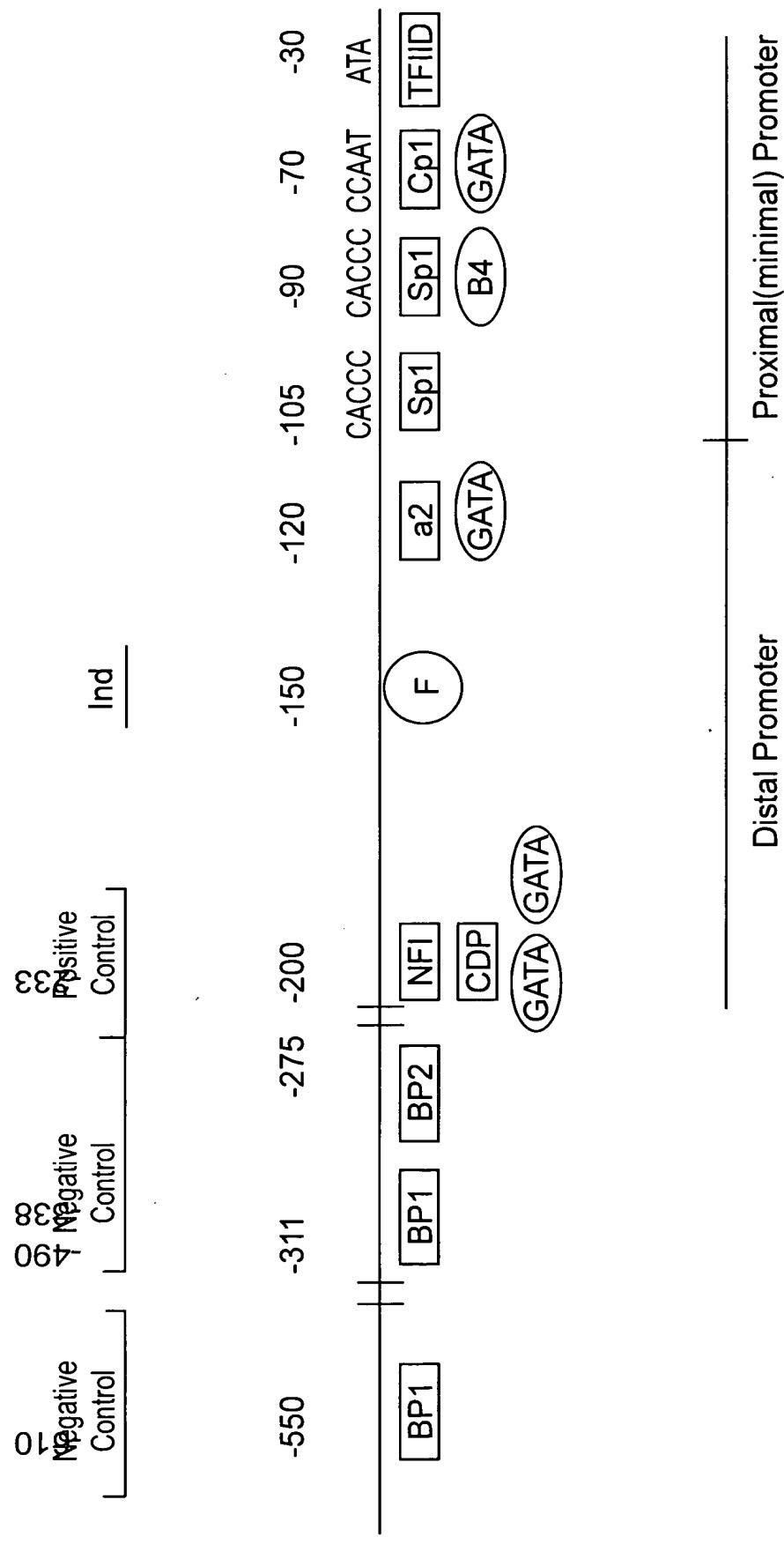


FIG. 9

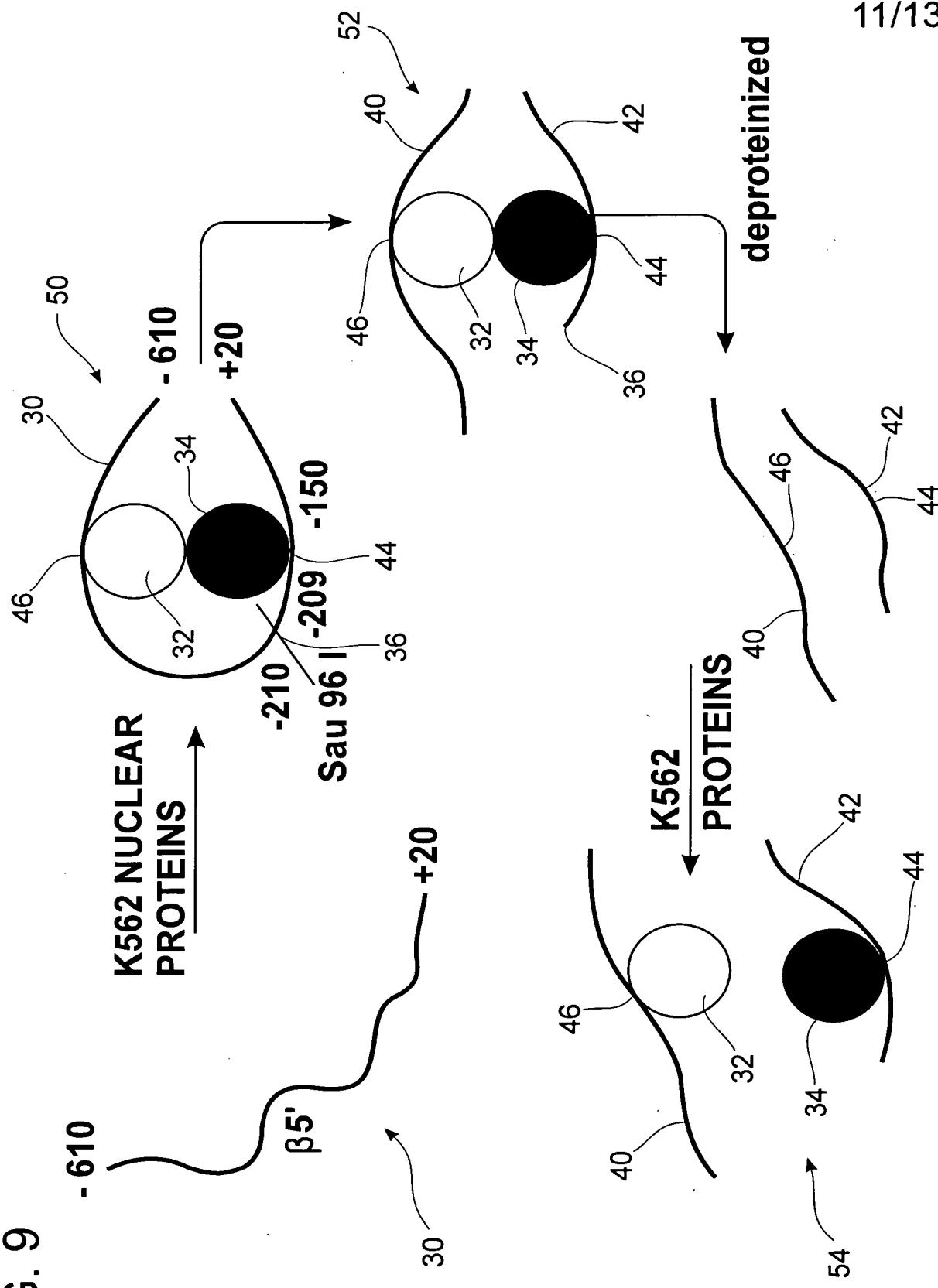
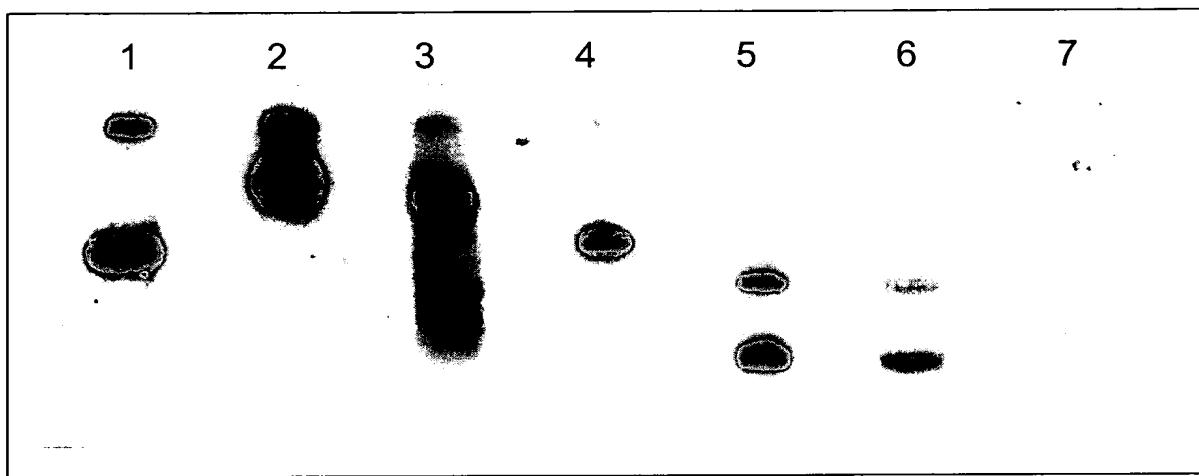


FIG. 10



TODAY'S DATE

FIG. 11

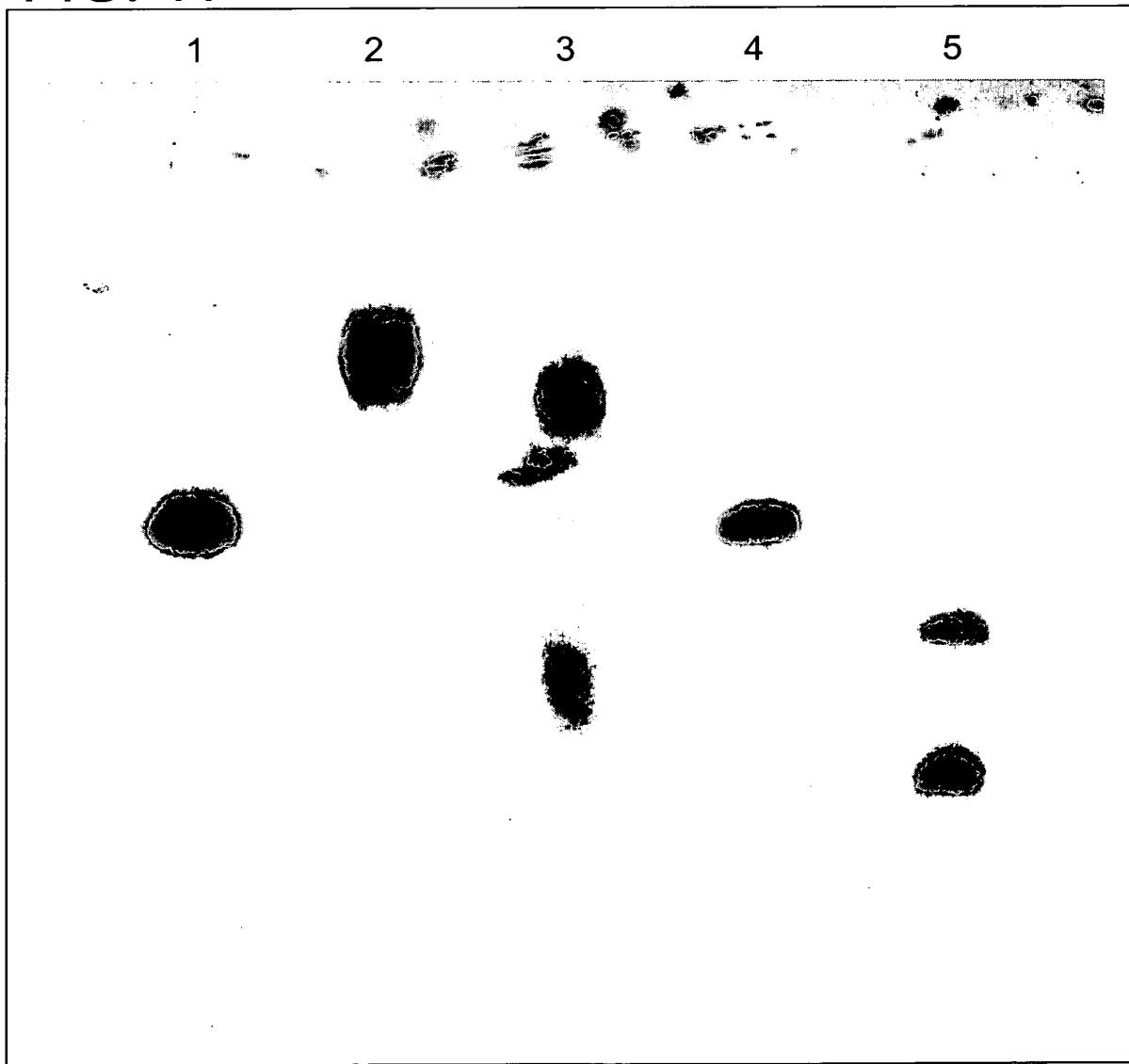


FIG. 12

